

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. APPLN. NO. 09/817,242

mounted on the support frame so as to be subjected to tension at room temperature, characterized in that:

- the support frame is made of a hardened Fe-Ni alloy having a thermal expansion coefficient between 20°C and 150°C of less than $5 \times 10^{-6} \text{ K}^{-1}$ and a yield stress $R_{p0.2}$ at 20°C of greater than 700 MPa;
- the tensioned shadow mask is made of an Fe-Ni alloy having a thermal expansion coefficient between 20°C and 150°C of less than $3 \times 10^{-6} \text{ K}^{-1}$;

the hardened Fe-Ni alloy of which the support frame is made and the Fe-Ni alloy of which the shadow mask is made being chosen in such a way that:

- below a temperature T_1 , the mean expansion coefficient α_{20-T} , between 20°C and the temperature T, of the hardened Fe-Ni alloy of which the support frame is made is greater than the mean expansion coefficient α_{20-T} , between 20°C and the temperature T, of the Fe-Ni alloy of which the shadow mask is made,
- above said temperature T_1 , the mean expansion coefficient α_{20-T} , between 20°C and the temperature T, of the hardened Fe-Ni alloy of which the support frame is made is less than the mean expansion coefficient α_{20-T} , between 20°C and the temperature T, of the Fe-Ni alloy of which the shadow mask is made, and
- said temperature T_1 is less than 350°C.

Please add new claim 9 as follows:

9. (New) The device according to claim 1, wherein said temperature T_1 is less than 300°C.

6. (Amended) A tensioned shadow mask made of an Fe-Ni alloy having a chemical composition such that:

$$32\% \leq \text{Ni} + \text{Co} + \text{Cr} \leq 35.5\%$$

$$0\% \leq \text{Co} \leq 4\%$$

$$0\% \leq \text{Cr} \leq 2\%$$

$$0\% \leq \text{Nb} + \text{Ta} + \text{Mo} + \text{W} + \text{Zr} < 0.2\%.$$

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7. (Amended) A tensioned shadow mask made of an Fe-Ni alloy having a chemical composition such that:

$$33.5\% \leq \text{Ni} + \text{Co} + \text{Cu} \leq 37\%$$

$$0\% \leq \text{Co} \leq 5.5\%$$

$$0\% \leq \text{Cu} \leq 2\%$$

$$0.2\% \leq \text{Nb} + \text{Ta} + \text{Mo} + \text{W} + \text{Zr} \leq 2\%.$$
